

**Amendments to the claims:**

This listing of claims replaces all prior versions, and listings, of claims in the application.

**Listing of claims:**

Claims 1-4 (cancelled).

1  
Claim ~~8~~ (previously presented): A method for heat-decomposing a sample containing organics using a heat-decomposing device comprising a heat-decomposing appliance, said method comprising the steps of

- setting up the sample in a the heat-decomposing appliance comprising, in the absence of firing means:
  - a) a heating section in the form of an axially aligned tube, open at only one of two opposing axial ends, having a length between said opposing axial ends of at least 10 cm and being molded of material that withstands (i) corrosive gases, (ii) oxidative corrosion, and (iii) heating to a temperature of at least 600°C; and
  - b) an introducing section that cooperates with the open end of said tube to seal the open end and, thereby, close said heating tube for heat decomposition when containing organic components, said introducing section including means for

introducing liquid through said introducing section into said heating tube when closed;

heating of said appliance being effected only by external means, said appliance containing no source of heat;

- filling up the appliance with oxygen and closing the appliance, then heating the appliance to decompose the organics into testing components, followed by cooling the appliance, and thereafter introducing an absorbing liquid into said heat-decomposing appliance to absorb the testing components produced in said sample,

said heat-decomposing device further comprising an appliance-installing section to install said closed heat-decomposing appliance, a heating means to heat-decompose the sample in said closed heat-decomposing appliance and a moving means to reversibly move said closed heat-decomposing appliance installed at said appliance-installing section to said heating means.

Claim 6 (cancelled).

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Claim 7 (currently amended): The method of claim 6 for heat-decomposing a sample and dissolving testing components produced, said device further comprising cooling means to cool the heat-decomposing appliance after heat-decomposition of the sample in said heat-decomposing appliance, injecting means to inject the absorbing liquid into said cooled

heat-decomposing appliance, mixing means to stir and/or shake for making the absorbed liquid in said heat-decomposing appliance uniform, and moving means to reversibly move said heat-decomposing appliance from an appliance-installing section ~~of~~ to any of said heating means, cooling means, injecting means or mixing means.

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Claim ~~8~~ (previously presented): The method of claim ~~7~~, further comprising stirring and/or shaking said heat-decomposing appliance to make said absorbed liquid in the heat-decomposing appliance uniform.

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Claim ~~8~~ (currently amended): The method of claim ~~7~~ further comprising analyzing the testing components, the device further comprising analytical means to analyze the testing components in the absorbing liquid and ~~moving~~ sampling means to sample the absorbing absorbed liquid inside the heat-decomposing appliance and ~~moving the absorbing~~ move the absorbed-liquid sample to said analytical means.

Claim 10 (cancelled).

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Claim ~~1~~ (previously presented): The method of claim ~~8~~, said heat-decomposing device further comprising a wash device containing:

c) a needle pipe for injecting absorbing liquid into the heat-decomposing appliance,

- d) a motor buret,
- e) a switchable valve with actuator,
- f) a washing port to wash the needle pipe, and
- g) means for moving the needle pipe to pierce through packing or septum of the introducing section of the heat-decomposing appliance and, then, move the needle pipe to the washing port.

<sup>6</sup> Claim ~~12~~ (previously presented): The method of claim <sup>4</sup>~~8~~, said mixing means comprising means to reciprocate the heat-decomposing appliance in the axial direction while axially rotating the heat-decomposing appliance horizontally.

<sup>7</sup> Claim ~~13~~ (previously presented): The method of claim <sup>4</sup>~~9~~, said moving means comprising a cross type motor robot with a mechanical hand or a mechanical hand and cross type motor robot with axis for rotating it.

Claims 14-19 (cancelled).

<sup>8</sup> Claim ~~20~~ (new): A device for heat-decomposing a sample containing organics comprising:  
- a heat-decomposing appliance comprising, in the absence of firing means:

- a) a heating section in the form of an axially aligned tube, open at only one of two opposing axial ends, having a length between said opposing axial ends of at least 10 cm and being molded of material that withstands (i) corrosive gases, (ii) oxidative corrosion, and (iii) heating to a temperature of at least 600°C; and
- b) an introducing section that cooperates with the open end of said tube to seal the open end and, thereby, close said heating tube for heat decomposition when containing organic components, said introducing section including means for introducing liquid through said introducing section into said heating tube when closed;  
heating of said appliance being effected only by external means, said appliance containing no source of heat;
- an appliance-installing section to install said closed heat-decomposing appliance,
- a heating means to heat-decompose the sample in said closed heat-decomposing appliance, and
- a moving means to reversibly move said closed heat-decomposing appliance installed at said appliance-installing section to said heating means.

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Claim ~~21~~ (new): The device of claim ~~20~~ further comprising

- cooling means to cool the heat-decomposing appliance after heat-decomposition of the sample in said heat-decomposing appliance,

- injecting means to inject the absorbing liquid into said cooled heat-decomposing appliance,
- mixing means to stir and/or shake for making the absorbed liquid in said heat-decomposing appliance uniform, and
- moving means to reversibly move said heat-decomposing appliance from an appliance-installing section to any of said heating means, cooling means, injecting means, or mixing means.

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Claim ~~22~~ (new): The device of claim ~~21~~ further comprising

- analytical means to analyze the testing components in the absorbing liquid and
- sampling means to sample the absorbed liquid inside the heat-decomposing appliance and move the absorbed-liquid sample to said analytical means.

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Claim ~~23~~ (new): The device of claim ~~22~~ further comprising

- a wash device containing:
  - a) a needle pipe for injecting absorbing liquid into the heat-decomposing appliance,
  - b) a motor buret,
  - c) a switchable valve with actuator,
  - d) a washing port to wash the needle pipe, and

e) means for moving the needle pipe to pierce through packing or septum of the introducing section of the heat-decomposing appliance and, then, move the needle pipe to the washing port.

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Claim ~~24~~ (new): The device of claim ~~22~~, said mixing means comprising means to reciprocate the heat-decomposing appliance in the axial direction while axially rotating the heat-decomposing appliance horizontally.

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Claim ~~25~~ (new): The device of claim ~~22~~, said moving means comprising a cross type motor robot with a mechanical hand or a mechanical hand and cross type motor robot with axis for rotating it.